

## **The Claims**

Please amend the claims in the following manner.

1. (currently amended) An apparatus, comprising:  
  
a table to contain a plurality of entries, each entry including a frequency field and  
  
a voltage field; and  
  
a register coupled to the table and having a selection field to select one of the  
  
plurality of entries, and further having a read-only limit field to specify  
  
how many of the entries are selectable;  
  
wherein each of the selectable entries is to indicate an operationally permissible  
  
combination of frequency and voltage.
- 2-3. (cancelled)
4. (original) The apparatus of claim 1, wherein the frequency field includes a  
  
processor clock frequency indicator.
5. (original) The apparatus of claim 4, wherein the processor clock frequency  
  
indicator is a multiplier to be used with a phase locked loop circuit to generate a  
  
processor clock frequency.

6. (original) The apparatus of claim 1, wherein the voltage field includes a processor operating voltage identifier.
7. (original) The apparatus of claim 1, wherein the table is disposed in non-volatile memory.
8. (original) The apparatus of claim 7, wherein the table includes at least two entries.
9. (currently amended) A computer system, comprising:
  - a clock generator to selectively output a clock signal at any of a plurality of selectable processor clock frequencies;
  - a power supply to selectively output any of a plurality of selectable processor operating voltages;
  - a table coupled to the clock generator and the power supply and containing a plurality of entries, each entry including a frequency field and a voltage field; and
  - a register coupled to the table and having a selection field to select one of the plurality of entries, and further having a read-only limit field to specify how many of the plurality of entries are selectable;wherein the selectable entries are each to contain values in the frequency and voltage fields that represent an operationally permissible combination of frequency and voltage.

10-11. (cancelled)

12. (original) The system of claim 9, wherein the frequency field includes a processor clock frequency indicator.

13. (original) The system of claim 12, wherein the processor clock frequency indicator is a multiplier to be used with a phase locked loop circuit to generate the processor clock frequency.

14. (original) The system of claim 9, wherein the voltage field includes a processor operating voltage identifier.

15. (original) The system of claim 9, wherein the table is disposed in non-volatile memory.

16. (original) The system of claim 15, wherein the table includes at least two entries.

17. (currently amended) A method, comprising:

using a content of a read-only limit field to determine how many of a plurality of

entries in a table are available;

writing a selected one of the available entries into a selection field of a register;

using a content of the selection field to select one of [[a]] the plurality of available entries in [[a]] the table, each available entry having a frequency field and a voltage field containing indicators of operationally permissible values for frequency and voltage.

18. (original) The method of claim 17, wherein a content of the frequency field indicates a processor clock frequency.
19. (original) The method of claim 17, wherein a content of the voltage field identifies a processor operating voltage.
20. (cancelled)
21. (original) The method of claim 17, further comprising:  
using a content of the frequency field of the selected one of the plurality of entries  
to control an operating frequency of a processor clock.
22. (currently amended) The method of claim 21, wherein said using the content of the frequency field includes using the content of the frequency field as a multiplier to control an output frequency of a phase locked loop.
23. (original) The method of claim 17, further comprising:

using a content of the voltage field of the selected one of the plurality of entries to control an operating voltage to a processor.

24. (currently amended) The method of claim 23, wherein said using the content of the voltage field includes using the content of the voltage field to select from a plurality of operating voltages to the processor.

25. (original) The method of claim 17, wherein a content of the frequency field and a content of the voltage field in a selected entry of the table are matched to produce a combination of processor clock frequency and processor operating voltage that are operable in an associated processor.

26. (currently amended) A machine-readable medium having stored thereon instructions, which when executed by a processor cause said processor to perform:  
determining how many of a plurality of voltage/frequency combinations are available for selection by referring to a read-only limit field;  
determining a desired combination of processor clock frequency and processor operating voltage from among the available combinations; and  
writing to a register to select the desired combination of processor clock frequency and processor operating voltage from a table,  
wherein each entry in the table contains values representing a pre-determined combination of frequency and voltage.

27. (original) The medium of claim 26, further comprising:  
reading from the register to determine the current combination of processor clock  
frequency and processor operating voltage.
28. (cancelled)
29. (original) The medium of claim 26, wherein:  
determining a desired combination is based on at least one of:  
a performance goal;  
a power consumption goal; and  
operating characteristics of the processor.